

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	2088054
<b>Application Number:</b>	10814113
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5163
<b>Title of Invention:</b>	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES
<b>First Named Inventor/Applicant Name:</b>	Lei Shao
<b>Customer Number:</b>	21186
<b>Filer:</b>	Joseph P. Mehrle/Anne Richards
<b>Filer Authorized By:</b>	Joseph P. Mehrle
<b>Attorney Docket Number:</b>	884.B52US1
<b>Receipt Date:</b>	15-AUG-2007
<b>Filing Date:</b>	30-MAR-2004
<b>Time Stamp:</b>	18:18:34
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	3781
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17	

### File Listing:

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Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		b52sidsSIGNED.pdf	598219	yes	4
			0d2c5b776dab464c2a63df6296c90b436e90e55a		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Miscellaneous Incoming Letter		1	1	
	Information Disclosure Statement (IDS) Filed		2	4	
Warnings:					
Information:					
2	NPL Documents	B52alamouti.pdf	181138	no	8
			53f317ed239b393ed8879a280b7e92a9d5372229		
Warnings:					
Information:					
3	NPL Documents	b52Tarokh.pdf	548528	no	22
			d41f62dd3819b314fc89ab9ce51a8f907b036994		
Warnings:					
Information:					
4	Fee Worksheet (PTO-06)	fee-info.pdf	8228	no	2
			71c5d226cf7bedf5a97129863f6b9c5e47c54cf9		
Warnings:					
Information:					
Total Files Size (in bytes):			1336113		

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.